

Date: Tue, 5 Apr 94 09:06:42 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V94 #378  
To: Info-Hams

Info-Hams Digest                      Tue, 5 Apr 94                      Volume 94 : Issue 378

Today's Topics:

Amateur Forwarding Rules Ammended  
Cable channel 18..  
clubs in Minneapolis  
Daily Summary of Solar Geophysical Activity for 04 April  
Icom 736 -- Anybody using one?  
IPS Daily Report - 04 April 94  
Kenwood TS-830S mods?  
License Time For 1a Element?  
Mount Athos and Cyprus  
Packet Radio  
Test Message (ignore)  
WARNING: Potential Satellite Anomaly Warning

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.  
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Date: 5 Apr 1994 13:20:44 GMT  
From: ihnp4.ucsd.edu!swrinde!gatech!usenet.ins.cwru.edu!odin!  
trier@network.ucsd.edu  
Subject: Amateur Forwarding Rules Ammended  
To: info-hams@ucsd.edu

In article <2nr3qv\$t21@crcnis1.unl.edu>,  
Gary McDuffie Sr <mcduffie@unlinfo.unl.edu> wrote:  
>Why should anyone, other than the originator, be held accountable for  
>his actions?

The FCC document posted made fleeting reference to the difficulty of authenticating messages.

>If he uses someone else's call, track him down, like any other mode.

A one-time post under a fake call is going to be extremely hard to trace. My job is in networking -- I've traced e-mail forgeries over our local net and the Internet. It is difficult. In amateur radio, the problem is worse because of the mobility of hams.

Without the use of cryptography, it is hard to build a strong way to authenticate message senders over packet radio. Thus it is necessary to find a ham who can be traced and held accountable for messages, and this is the BBS operator.

No, I don't entirely agree with the logic. I am only explaining it.

Stephen

--

Stephen Trier KB8PWA            "It don't mean a thing if it ain't got that  
Other: trier@ins.cwru.edu        certain je ne sais quois."  
Home: sct@po.cwru.edu                                - Peter Schickele

-----  
Date: 5 Apr 1994 13:34:13 GMT  
From: ihnp4.ucsd.edu!agate!news.Brown.EDU!NewsWatcher!user@network.ucsd.edu  
Subject: Cable channel 18..  
To: info-hams@ucsd.edu

In article <6yu7Jc1w165w@p-cove.UUCP>, wolfman@p-cove.UUCP (Aaron Smith) wrote:

> I don't know how much this has been discussed here, but I would like to  
> know what I can do about our cable system. There is a real bad cable leak  
> in our town. If I tune to 145.25 while in my car, I can even hear their  
> continuous carrier, thats how bad it is.. Who do I talke to or contact  
> about getting this problem fixed? Whenever someone transmits they get  
> into everyones channel 18 in about a half mile radius. Noone has really  
> complained to the cable company yet, probably because here it's a pay  
> station (PASS.. joy) and I don't think many people subscribe to it..

Contact your local cable company. I'm sure they'd be VERY interested in hearing that their cable is leaking signal. Just tell it to them the same way you told us... you can hear it on 145.25. Cable channel 18 runs from appx 144.0 to 148.0 MHz so you're in the general ballpark.

In addition, 2m transmissions WILL interfere if there's leakage on the cable.

If the cable company should ignore your helpful comments then it's time to notify your local branch office of the FCC. They'll take a rather intense interest in the matter.

Tony

--

== Anthony\_Pelliccio@Brown.edu (Tony Pelliccio, KD1NR)  
== Box 1908, Providence, RI 02912 Tel. (401) 863-1880  
== All opinions expressed are those of the individual, and not those  
== of Brown University.

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Date: Tue, 5 Apr 1994 15:23:13 GMT  
From: ihnp4.ucsd.edu!swrinde!gatech!europa.eng.gtefsd.com!darwin.sura.net!  
hearst.acc.Virginia.EDU!liberty!wtrubeck@network.ucsd.edu  
Subject: clubs in Minneapolis  
To: info-hams@ucsd.edu

I just moved out to Minneapolis, and was wondering if anyone knew of any ham radio clubs in the area.

Thanks,  
Bill N2NBW

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Date: Mon, 4 Apr 1994 21:43:32 MDT  
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!math.ohio-state.edu!  
cyber2.cyberstore.ca!nntp.cs.ubc.ca!alberta!ve6mgs!usenet@network.ucsd.edu  
Subject: Daily Summary of Solar Geophysical Activity for 04 April  
To: info-hams@ucsd.edu

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DAILY SUMMARY OF SOLAR GEOPHYSICAL ACTIVITY

04 APRIL, 1994

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(Based In-Part On SESC Observational Data)

SOLAR AND GEOPHYSICAL ACTIVITY INDICES FOR 04 APRIL, 1994

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NOTE: The background x-ray flux is subject to error due to the low level of x-rays presently observed. Additional sensor contamination is being observed from to the enhanced energetic electron densities presently existing at geosynchronous altitudes.

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 094, 04/04/94  
10.7 FLUX=077.1 90-AVG=099 SSN=000 BKI=5554 3334 BAI=030  
BGND-XRAY=A1.8 FLU1=1.1E+07 FLU10=1.2E+04 PKI=6675 4434 PAI=050  
BOU-DEV=115,106,116,055,021,025,038,042 DEV-AVG=064 NT SWF=00:000  
XRAY-MAX= B2.8 @ 1047UT XRAY-MIN= A1.0 @ 2108UT XRAY-AVG= A5.4  
NEUTN-MAX= +002% @ 1350UT NEUTN-MIN= -003% @ 0845UT NEUTN-AVG= -0.5%  
PCA-MAX= +0.1DB @ 2355UT PCA-MIN= -0.2DB @ 0645UT PCA-AVG= -0.0DB  
BOUTF-MAX=55428NT @ 0003UT BOUTF-MIN=55299NT @ 0636UT BOUTF-AVG=55328NT  
GOES7-MAX=P:+000NT@ 0000UT GOES7-MIN=N:+000NT@ 0000UT G7-AVG=+069,+000,+000  
GOES6-MAX=P:+134NT@ 1719UT GOES6-MIN=N:-154NT@ 0319UT G6-AVG=+086,+033,-068  
FLUXFCST=STD:075,075,070;SESC:075,075,070 BAI/PAI-FCST=040,040,035/050,040,040  
KFCST=4675 5555 5555 5555 27DAY-AP=038,052 27DAY-KP=5545 4544 4675 5555  
WARNINGS=\*GSTRM;\*AURMIDWRN  
ALERTS=\*\*MAJSTRM  
!!END-DATA!!

NOTE: The Effective Sunspot Number for 03 APR 94 was 25.0.  
The Full Kp Indices for 03 APR 94 are: 5+ 7- 7o 6- 5o 5o 5- 7-  
The 3-Hr Ap Indices for 03 APR 94 are: 55 106 132 67 45 45 42 107  
Greater than 2 MeV Electron Fluence for 04 APR is: 1.2E+09

#### SYNOPSIS OF ACTIVITY

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Solar activity was very low with no significant activity reported. The disk remains spotless.

Solar activity forecast: solar activity is expected to remain at very low levels.

The geomagnetic field has been at unsettled to major storm levels for the past 24 hours. The storm conditions are believed to be a result of a favorably positioned recurrent coronal hole. The GT 2 MeV electron flux generally remained in the moderate range, becoming high about 04/1400Z.

Geophysical activity forecast: the geomagnetic field is expected to remain at mostly active to major storm levels with overall conditions expected to gradually decrease after the forecast period.

Event probabilities 05 apr-07 apr

Class M	01/01/01
Class X	01/01/01
Proton	01/01/01
PCAF	Green

Geomagnetic activity probabilities 05 apr-07 apr

A. Middle Latitudes	
Active	30/30/30
Minor Storm	40/35/30
Major-Severe Storm	25/25/20
B. High Latitudes	
Active	30/30/30
Minor Storm	40/35/35
Major-Severe Storm	30/25/25

HF propagation conditions were moderately to strongly degraded throughout most of the UTC day. High and polar latitude paths were essentially wiped out with useless propagation. Planetary peak A-indices in the severe storm category were associated with heavily depressed propagation quality through the high and polar latitude regions, extending even into the middle latitudes today. Fair to occasionally very poor propagation was reported over most middle latitude regions. Conditions began improving over the middle latitudes late in the day. Low latitude paths were slightly below-normal. No significant improvements are expected over the next 3 days. Night-sector propagation will remain the hardest-hit regions with possible frequent substorming continuing.

COPIES OF JOINT USAF/NOAA SESC SOLAR GEOPHYSICAL REPORTS

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REGIONS WITH SUNSPOTS. LOCATIONS VALID AT 04/2400Z APRIL

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NMBR	LOCATION	LO	AREA	Z	LL	NN	MAG	TYPE
------	----------	----	------	---	----	----	-----	------

NONE

7697	N11W80	048						PLAGE
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7698	S14W62	030						PLAGE
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REGIONS DUE TO RETURN 05 APRIL TO 07 APRIL

NMBR	LAT	LO
------	-----	----

NONE

LISTING OF SOLAR ENERGETIC EVENTS FOR 04 APRIL, 1994

A. ENERGETIC EVENTS:

BEGIN	MAX	END	RGN	LOC	XRAY	OP	245MHZ	10CM	SWEEP
NONE									

POSSIBLE CORONAL MASS EJECTION EVENTS FOR 04 APRIL, 1994

BEGIN	MAX	END	LOCATION	TYPE	SIZE	DUR	II	IV
04/B1044		1140	N14W78	DSF				

INFERRED CORONAL HOLES. LOCATIONS VALID AT 04/2400Z

ISOLATED HOLES AND POLAR EXTENSIONS

EAST	SOUTH	WEST	NORTH	CAR	TYPE	POL	AREA	OBSN
NO DATA AVAILABLE FOR ANALYSIS								

SUMMARY OF FLARE EVENTS FOR THE PREVIOUS UTC DAY

Date	Begin	Max	End	Xray	Op	Region	Locn	2695 MHz	8800 MHz	15.4 GHz
03 Apr:	0102	0114	0139	B2.7						

REGION FLARE STATISTICS FOR THE PREVIOUS UTC DAY

	C	M	X	S	1	2	3	4	Total	(%)
Uncorrelated:	0	0	0	0	0	0	0	0	001	(100.0)

Total Events: 001 optical and x-ray.

EVENTS WITH SWEEPS AND/OR OPTICAL PHENOMENA FOR THE LAST UTC DAY

Date	Begin	Max	End	Xray	Op	Region	Locn	Sweeps/Optical Observations
NO EVENTS OBSERVED.								

NOTES:

All times are in Universal Time (UT). Characters preceding begin, max, and end times are defined as: B = Before, U = Uncertain, A = After. All times associated with x-ray flares (ex. flares which produce associated x-ray bursts) refer to the begin, max, and end times of the x-rays. Flares which are not associated with x-ray signatures use the optical observations to determine the begin, max, and end times.

Acronyms used to identify sweeps and optical phenomena include:

II	= Type II Sweep Frequency Event
III	= Type III Sweep
IV	= Type IV Sweep
V	= Type V Sweep
Continuum	= Continuum Radio Event
Loop	= Loop Prominence System,
Spray	= Limb Spray,
Surge	= Bright Limb Surge,
EPL	= Eruptive Prominence on the Limb.

\*\* End of Daily Report \*\*

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Date: 5 Apr 1994 13:25:54 GMT  
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!gatech!mailer.acns.fsu.edu!  
thunder!jeff@network.ucsd.edu  
Subject: Icom 736 -- Anybody using one?  
To: info-hams@ucsd.edu

Is anybody out there in net land using the new Icom 736? I'd be interested in any comments you may have about this rig. I can't seem to get any information from any of the dealers that I've called. Specifically, I'm interested in receiver quality, transmitter audio quality, and filtering options for CW and/or SSB. Please send email to jeff@thunder.met.fsu.edu. Thanks.

---  
Jeff Ward, N4TRY  
jeff@thunder.met.fsu.edu  
-----

Date: Mon, 4 Apr 1994 23:36:20 GMT  
From: sword.eng.pyramid.com!pta.pyramid.com.au!warrane.connect.com.au!  
yarrina.connect.com.au!news.uwa.edu.au!harbinger.cc.monash.edu.au!  
newshost.anu.edu.au!sserve!usage!@gossip.pyramid.com  
Subject: IPS Daily Report - 04 April 94

To: info-hams@ucsd.edu

SUBJ: IPS DAILY SOLAR AND GEOPHYSICAL REPORT  
ISSUED AT 4/2330Z APRIL 1994 BY IPS RADIO AND SPACE SERVICES  
FROM THE REGIONAL WARNING CENTRE (RWC), SYDNEY.  
SUMMARY FOR 4 APRIL AND FORECAST UP TO 7 APRIL

IPS Warning 10 was issued on 31 March and is current  
for the interval April 3 - 14 (coronal hole).

-----  
1A. SOLAR SUMMARY

Activity: very low

Flares: none.

Observed 10.7 cm flux/Equivalent Sunspot Number : 077/016

1B. SOLAR FORECAST

	05 April	06 April	07 April
Activity	Very low	Very low	Very low
Fadeouts	None expected	None expected	None expected

Forecast 10.7 cm flux/Equivalent Sunspot Number : 075/013

1C. SOLAR COMMENT

None.

-----  
2A. MAGNETIC SUMMARY

Geomagnetic field at Learmonth: active to minor storm

Estimated Indices :	A	K	Observed A Index 3 April
Learmonth	30	5445 4443	
Fredericksburg	40		53
Planetary	60		76

Observed Kp for 3 April: 5776 5557

2B. MAGNETIC FORECAST

DATE	Ap	CONDITIONS
05 Apr	40	Active to minor storm.
06 Apr	40	Active to minor storm.
07 Apr	40	Active to minor storm.

2C. MAGNETIC COMMENT

Coronal hole induced activity currently in progress.



### 3A. GLOBAL HF PROPAGATION SUMMARY

	LATITUDE BAND		
DATE	LOW	MIDDLE	HIGH
04 Apr	normal	fair	poor-fair

PCA Event : None.

### 3B. GLOBAL HF PROPAGATION FORECAST

	LATITUDE BAND		
DATE	LOW	MIDDLE	HIGH
05 Apr	poor	poor	poor
06 Apr	poor	poor	poor
07 Apr	poor	poor	poor

### 3C. GLOBAL HF PROPAGATION COMMENT

Poor HF comms quality expected at times over next three days.

### 4A. AUSTRALIAN REGION IONOSPHERIC SUMMARY

MUFs at Sydney were near predicted monthly values

Observed T index for 04 April: 46

Predicted Monthly T Index for April is 40.

### 4B. AUSTRALIAN REGION IONOSPHERIC FORECAST

DATE	T-index	MUFs
05 Apr	40	Near predicted monthly values.
06 Apr	40	Near predicted monthly values.
07 Apr	40	Near predicted monthly values.

### 4C. AUSTRALIAN REGION COMMENT

Fair-Poor HF comms conditions expected until April 13. Depressions of 20-30% were observed on April 3 and 4 at Hobart, and depressions of 30% were observed on April 4 at Learmonth. Other mainland stations showed no significant depressions.

--

IPS Regional Warning Centre, Sydney	IPS Radio and Space Services
email: rwc@ips.oz.au fax: +61 2 4148331	PO Box 5606
RWC Duty Forecaster tel: +61 2 4148329	West Chatswood NSW 2057
Recorded Message tel: +61 2 4148330	AUSTRALIA

Date: Tue, 5 Apr 1994 10:34:32 GMT

From: ihnp4.ucsd.edu!usc!cs.utexas.edu!swrinde!sgiblab!darwin.sura.net!

gatekeeper.es.dupont.com!esds01.es.dupont.com!

GRIB%esvx17.es.dupont.com@network.ucsd.edu

Subject: Kenwood TS-830S mods?  
To: info-hams@ucsd.edu

In article <CnrI6r.96K@nctams1.uucp>, tjenkins@pnet16.navy.mil (Tom Jenkins) writes:

>Anyone have a line on any modifications for the subject HF SSB tranx?

>

>--Tom

>

>INET: tjenkins@pnet16.navy.mil

Tom,

International Radio and Computers used to publish some sheets from the FOX-TANGO club that had mod's for different rigs (not just Yaesu), you might try them at:

International Radio and Computers  
3804 South US 1  
Fort Pierce, Florida 34982

407-489-0956

Also, you might want to call Kenwood and see if they have anything you can use for your rig, I don't have a phone number, but if you call one of the ham dealers, you should be able to get the phone number for their customer service department.

73,

Joe KI3B

-----  
Date: 5 Apr 1994 15:11:47 GMT  
From: ihnp4.ucsd.edu!galaxy.ucr.edu!library.ucla.edu!agate!howland.reston.ans.net!  
noc.near.net!jericho.mc.com!fugu!levine@network.ucsd.edu  
Subject: License Time For 1a Element?  
To: info-hams@ucsd.edu

In article 94Mar22120102@powell.bbn.com, levin@bbn.com (Joel B Levin) writes:

-->In article <1994Mar17.203725.1@acad2.alaska.edu> auchd@acad2.alaska.edu writes:  
-->

--> I passed a 1a element for upgrade to Technician Plus on December 1.

--> It is now the middle of March and I havn't received a new license.

--> Is the FCC issuing new licenses for 1a element upgrades?

-->

-->No. Your license remains a Technician license. The VEC notifies the

-->FCC but no new license is issued. (Your current license looks just  
-->like that of someone who started out with a Tech plus.)  
-->  
--> /JBL  
-->=  
-->Nets: levin@bbn.com | "The Pledge of Allegiance says '..with liberty and  
-->pots: (617)873-3463 | justice for all'. What part of 'all' don't you  
-->KD10N | understand?" --Rep. Pat Schroeder (D) Colorado

However since the changing of the 610 form which DOES differentiate  
(yay finally) between Technicians and Technician Plus, you  
will get Technician Plus licenses.

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-----  
Bob Levine KD1GG 7J1AIS VK2GYN formerly KA1JFP  
levine@mc.com <--Internet email Phone(508) 256-1300 x247  
kd1gg@wa1phy.ma <--Packet Mail FAX(508) 256-3599  
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-----  
Date: 5 Apr 1994 15:27:48 GMT  
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!math.ohio-state.edu!  
news.acns.nwu.edu!casbah.acns.nwu.edu!rdewan@network.ucsd.edu  
Subject: Mount Athos and Cyprus  
To: info-hams@ucsd.edu

In article <166@sv1cec.ampr.org>,  
John Caradimas <sv1cec@athnet.ath.forthnet.gr> wrote:  
>To : All Radio Amateurs

My cue ...

> The DXCC committee  
> The DXAC committee  
>  
>  
>  
>

>Gentlemen,

>  
>A recent "Proposed Vote for Schedule" has been announced by the DXAC  
>Chairman, which includes the topics of Mount Athos Deletion and acceptance  
>of the pseudo-state of the occupied part of Cyprus, in the DXCC list.  
>  
>It is quite clear to us and probably to every greek radio amateur, that the  
>above proposal, sounds like a blackmail effort or a threat. It can easily be

>translated to "make SV/A active again, or we delete it, and add the pseudo-  
>state instead", or even to "behave or you will be punished".

>

>We would like to remind to Mr. Chairman, as well as any one else behind  
>these proposals, the followings :

>

>- The pseudo-state that you propose to accept as a DXCC country has  
>resulted from the unprovoked invasion of the Turks military forces in Cyprus,  
>in 1974. It is therefore a result of a violent act, from one country against  
>another. Are you gentlemen of the DXAC committee going to appraise  
>and encourage such acts, by proposals like the one mentioned above?

>

>- Are you aware gentlemen, that the northern part of Cyprus is still -  
>since 1974- under armed occupation, by the Turkish Armed Forces and  
>that there are still homeless people, forced to abandon their properties  
>and home land? We very well remember that some years ago, when Iraq  
>invaded Kuwait, an international force was assembled to liberate the  
>occupied country. Of course, such a force was never assembled for  
>Cyprus, but then again, Cyprus is not producing any oil. This however  
>does not give you, or anybody else, the right to create a status quo, with  
>stupid proposals, like yours.

>

>- The pseudo-state gentlemen, has not been recognized by any  
>international organization (like UN or EC) or by any other country, except  
>of course Turkey. Are you gentlemen going to replace these  
>international organizations in their role, or your real intentions are to  
>exerce pressure to these organizations to recognize countries  
>according to your (hidden, possibly financial) wishes (or interests)? Also,  
>are you aware that there have been several appeals to the UN against Turkey,  
>and that Turkey has been condemned by the UN for its acts? Are you  
>encouraging Turkey's acts by your proposals?

>

>- The DXAC, the DXCC and all other radio amateur organizations, as  
>well as radio amateurs themselves, have to stick to the rules of amateur  
>radio, as they are defined after years of ham activity. One of the most  
>basic rules of our hobby is that amateur radio stays clear of politics  
>or personal financial interests. How can it be then, that you are currently  
>taking part in a very old debate between Cyprus and Turkey? Is it  
>possible that financial reasons are behind your proposals?

I think that these statements apply to you too. I think that with your  
statements you are trying to inject politics into ham radio. From what  
I understand, to operate in Northern Cyprus, you need to get a license  
from people currently in power. I bet that your greek license will not do you  
much good if you want to operate in Northern Cyprus today. This was the test  
used in case of Walvis bay to decide whether it should be considered a  
separate country. Namibia could not issue a license whereas RSA could.



All statements above reflect my opinion and not that of my employer.

Rajiv  
aa9ch  
r-dewan@nwu.edu

-----  
Date: Tue, 5 Apr 94 10:58:54 -0500  
From: ihnp4.ucsd.edu!library.ucla.edu!agate!howland.reston.ans.net!noc.near.net!  
news.delphi.com!usenet@network.ucsd.edu  
Subject: Packet Radio  
To: info-hams@ucsd.edu

Mark Frye <mark.frye@br-ranch.org> writes:

>Hey could anybody out there in Cyber-Land give me a detailed, yet  
>general, description of what a person needs, equipment and software  
>wise, to start enjoying packet radioing.

Sure,  
For VHF Packet you will need a Data terminal Emulator, i.e. a dumb terminal, pc  
running terminal software..., A Terminal node Controller (TNC)  
and a 2 meter FM Transciever. You can get away with a reciever if you only  
want to monitor ;-(

For an IBM PC user, a cheap entry is a Tigertronics Baypac Modem and a  
second-hand 2-meter HT. The tigertronics unit works fine and is about  
\$50 new. A full bore tnc like the kantronics KPC-3 is about \$120.  
The 2 meter HT will do the job, but more power and better rx may be  
lurking in yer wish list shortly. Try your local (?) ham shop for  
swap.

The Tigertronics unit runs the AX.25 code in RAM, as opposed to a regular  
TNC running it on an EPROM or Rom.

Either way, have a blast.....are you licensed?

good luck de n1qdq

-----  
Date: 5 Apr 1994 10:12:35 -0400  
From: ihnp4.ucsd.edu!usc!math.ohio-state.edu!magnus.acs.ohio-state.edu!mail-news-  
gateway@network.ucsd.edu  
Subject: Test Message (ignore)  
To: info-hams@ucsd.edu

This is a test message. Please ignore.

-----  
Date: Mon, 4 Apr 1994 22:02:56 MDT  
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!wupost!math.ohio-state.edu!  
cyber2.cyberstore.ca!nntp.cs.ubc.ca!alberta!ve6mgs!usenet@network.ucsd.edu  
Subject: WARNING: Potential Satellite Anomaly Warning  
To: info-hams@ucsd.edu

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POTENTIAL SATELLITE ANOMALY WARNING

ISSUED: 02:30 UT, 05 APRIL

/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\

ATTENTION:

The recurrent disturbance which, over the last 3 solar rotations has been responsible for elevating levels of energetic electrons at greater than 2 MeV, began returning around mid-day on 03 April. Today, levels of energetic electrons became high and have remained moderately high since approximately 12:00 UTC. High to very high levels of energetic electrons (with densities near and above  $1.0E+05$  el/cm<sup>2</sup>-sec-ster) can be expected over the next week with diurnal maximums near local noon at geosynchronous altitudes. The enhanced electron densities may be sufficient to produce charging-related satellite anomalies.

Additional updates will be posted as necessary.

\*\* End of Warning \*\*

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End of Info-Hams Digest V94 #378

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